

***CORYNEBACTERIUM GLUTAMICUM* GENES ENCODING NOVEL
PROTEINS**

Abstract of the Disclosure

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Isolated nucleic acid molecules, designated MCP nucleic acid molecules, which
encode novel MCP proteins from *Corynebacterium glutamicum* are described. The
invention also provides antisense nucleic acid molecules, recombinant expression
vectors containing MCP nucleic acid molecules, and host cells into which the expression
10 vectors have been introduced. The invention still further provides isolated MCP
proteins, mutated MCP proteins, fusion proteins, antigenic peptides and methods for the
improvement of production of a desired compound from *C. glutamicum* based on
genetic engineering of MCP genes in this organism.